

AC2000 SERIES

250kW DC POWER SUPPLY



(AC2250) 250kW DC POWER SUPPLY

Like all AC2000 DC power supplies from Anderson, AC2250 delivers performance for the applications that need it most. Battery Emulation and Battery Cycling are supported out-of-the-box. AC2000 provides an efficient, space-saving solution with intuitive graphical touchscreen that allows you to start running immediately. Other features include:

- 1000 Volts DC and ± 1125 Amps DC
- 1 or 2 fully independent DC channels in one unit
- Slew rates ≤ 1 ms
- World-class accuracy with traceable calibration
- Efficient design returns energy to AC grid (bi-directional)
- Combine units in parallel to reach up to 1 MW
- Unified software interface across AC2000 product line



TECH SPECS

DC Ratings

- ± 250 kW (± 275 kW for 30 s)
- ± 1125 amps (± 1250 amps for 10 s)
- 0-1000 volts

AC Power

- 3-ph 380V, 480V or 600V
- 50 or 60 Hz

Safety

- UL-rated insulation monitor
- E-STOP w/ safety-rated contacts
- DC interlock per channel
- Facility interlock
- Reverse voltage detection

Features

- Voltage / Current / Power control
- Touchscreen control & monitoring
- Two DC Channels (optional)
 - 0-100% voltage each channel
 - $\pm 100\%$ power each channel
 - $\frac{1}{2}$ current per channel
- DC isolation contactors
- Remote volt. measurement
- Combine up to 4 units in parallel
- On-board data recorder

Accuracy

- 24-bit resolution
- 0.015% or 150ppm base accuracy
- 192 MSPS effective sample rate
- **Traceable** calibration
- Automated calibration using auto-cal kit (purchased separately)

Remote Control Drivers

- C# DotNET 5.0, 6.0, 7.0
- NI LabVIEW 2019 or above

Communication Protocols

- EtherCAT, CAN 2.0B, CAN-FD, TCP/IP, Fiber-optic

Sample Rates

- ≤ 1 to 16 kHz (protocol dependent)

Efficiency

- $\geq 94\%$ typical

Environment

- 5-35 deg. C ambient
- 10-90% humidity (non-condensing)
- Liquid-cooled (external chiller or heat exchg. required)